

The following listing of claims will replace all prior versions, and listing of claims in this application:

Claims 1-25 Cancelled.

26. (New) A transparent substrate having at least one surface comprising, an antireflection coating made of a multilayer stack having alternating thin layers of high and low refractive indices, comprising:

(a) at least one high-index thin multilayer having a refractive index value higher than 1.9 and lower than 2.45, comprising

at least one titanium oxide layer and at least one additional high index layer having a refractive index of at most 2.3 and comprising a material selected from the group consisting of zinc oxide, silicon nitride, aluminum nitride, and a slightly conducting material having doped metal oxide; or

a trilayer with alternatively one titanium oxide layer, one tin oxide layer and one titanium oxide layer.

(b) low refractive index layers having a refractive index of from 1.30 to 1.65.

27. (New) The transparent substrate of claim 26, wherein the high-index multilayer has a refractive index ranging from 2.25 to 2.38.

28. (New) The transparent substrate of claim 26, wherein the thin layers comprise a dielectric material, a low emissivity material, or a solar-protection coating.

29. (New) The transparent substrate of claim 26, wherein the titanium oxide layer and the additional high index layer are contiguous layers and the additional high index layer is closer to the substrate than the titanium oxide layer.

30. (New) The transparent substrate of claim 29, wherein the absolute value of the difference between the refractive index of the additional high index layer less the refractive index of the first titanium oxide layer is from 0.1 to 0.6.

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31. (New) The transparent substrate of claim 26, wherein the low refractive index thin layers comprises one or more of silicon oxide, aluminum oxide, aluminum oxyfluoride, aluminum fluoride, magnesium fluoride and mixtures thereof

32. (New) The transparent substrate of claim 31, wherein the low refractive index thin layers comprise at least one of silicon oxide and aluminum oxide, and wherein the oxides are halogenated.

33. (New) The transparent substrate of claim 31, wherein the thin layer of the antireflection coating most removed from the substrate is a low index layer comprising a SiO_2 - Al_2O_3 , wherein the atomic percent of aluminum with respect to silicon is from 5 to 20 percent.

34. (New) The transparent substrate of claim 33, wherein the antireflection coating has a formula (high-index layer/low-index layer)_n, wherein n is 2 or 3.

35. (New) The transparent substrate of claim 26, wherein the doped metal oxide is selected from the group consisting of fluorine-doped tin oxide, antimony-doped tin oxide, aluminium-doped zinc oxide.

36. (New) The transparent substrate of claim 26, wherein the titanium oxide layer and the additional high index layer are contiguous layers and the titanium oxide layer is closer to the substrate than the additional high index layer which is a silicon nitride.

37. (New) The transparent substrate of claim 26, wherein a single intermediate index layer substitutes a first sequence counting from the substrate of high- index layer and low index layer.

38. (New) The transparent substrate of claim 26, which comprises a high index layer distinct from the high-index multilayer, having a refractive index of between 1.9 and 2.2 and which comprises tantalum oxide, zirconium oxide, tin oxide, indium oxide, zinc oxide, niobium oxide, silicon nitride, or aluminum nitride.

39. (New) A glazing comprising the transparent substrate of claim 26.

40. (New) The glazing of claim 39, further comprising a layer or multilayer stack that is a solar protection layer, a heat absorbing layer, a UV protecting layer, an antistatic layer, a low emissivity layer, a heated layer, an anti-fouling layer, a hydrophobic organic layer having an anti-rain function, a hydrophilic organic layer having an anti-fogging function, or a silvering layer.

41. (New) The glazing of claim 39, wherein the glazing comprises extra-clear glass or solid-tinted glass and wherein the glazing is optionally, toughened, reinforced, curved, or bent.

42. (New) The glazing of claim 39, wherein the glazing comprises a transparent polymer material.

43. (New) The glazing of claim 42, wherein the transparent polymer material comprises a polycarbonate or a polyacrylate.

44. (New) The glazing of claim 39, for use as the internal or external glazing for buildings, to protect paintings, a motor-vehicle window, a mirror, a display screen, a decorative glass, a shop window, a shop-counter, or a refrigerated display-cabinet.

45. (New) A motor vehicle window comprising the glazing of claim 39.

46. (New) A mirror comprising the glazing of claim 39.

47. (New) A display screen comprising the glazing of claim 39.

48. (New) A shop window comprising the glazing of claim 39.

49. (New) A glass comprising the glazing of claim 39.